PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE FINAL MODIFICATION AND INSTALLATION OF ULTIMATE TRAFFIC CONTROL EQUIPMENT AT THE INTERSECTION OF MD 450 AT HIGHBRIDGE/RELOCATED CHURCH ROAD IN PRINCE GEORGE'S COUNTY, MD 450 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION.

INTERSECTION OPERATION

NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA-THREE-PHASE, FULLY ACTUATED MODE. THE MOVEMENTS ON MD 450 WILL OPERATE CONCURRENTLY. THE MOVEMENTS ON HIGHBRIDGE/RELOCATED CHURCH ROAD WILL OPERATE CONCURRENTLY. THE INTERCONNECT WILL CONNECT TO THE NEW CONTROLLER AT THE INTERSECTION OF MD 450 AT HILLMEADE ROAD AND AT THE INTERSECTION OF MD 450 AT GRENVILLE LANE.

SPECIAL NOTE

ALL UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE BECAUSE THESE UTILITIES MAY BE MODIFIED PRIOR TO AND DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR. SHALL NOTIFY THE PROJECT MANAGER IMMEDIATELY.

WIRING DIAGRAM **▲** A,B,C,D,E,F,K _ L,M,N,O,P,T,U _ A,B,C,D,E,F ▲ K, L, M, N, O, P B,E,K,N--A,C,D,F,L,MA 0,P,Q,S,T,U AA,C,D,F,L,M-0,P,0,S,T,U -A,D,F,L,M& **A** C, O, P, S → - A,D,F,L,M,Q <u>&</u> A,D,F,L,M,Q,T,U 🛕

A,B,C VIDEO DETECTOR CABLE ELECTRICAL CABLE 7-CONDUCTOR (NO.14 AWG) ELECTRICAL CABLE 2-CONDUCTOR NO. 6 AWG STRANDED BARE COPPER (NO. 12 AWG) GROUND WIRE ELECTRICAL CABLE 4-CONDUCTOR MICRO-LOOP 1000 FT. LEAD IN (NO. 20 AWG) ELECTRICAL CABLE 5-CONDUCTOR MICRO-LOOP NON INVASIVE PROBE SET G,H,J (NO. 14 AWG)

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
973023	813	▲ 132 S.F.	SHEET ALUMINUM SIGN TO CONSIST OF: -2 EA. RIO-I2L (36 IN. X 42 IN.)-MAST ARM MOUNT -I EA. R3-5R (30 IN. X 36 IN.)-MAST ARM MOUNT -2 EA. D3-2 (32 IN. X VAR.)-MAST ARM MOUNT -2 EA. ASSOCIATED SHIELD ASSEMBLY (30 IN. X 5I IN.)-POLE MOUNT -I EA. ASSOCIATED SHIELD ASSEMBLY (48 IN. X 75 IN.)-POLE MOUNT

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

THARLIE WATKINS DISTRICTENGINEER PHONE: 301-513-7300

ROBERT SNYDER ASSISTANT DIVISION CHIEF TRAFFIC OPERATION DIVISION PHONE: 410-787-7630

A RALEIGH MEDLEY ASSISTANT DISTRICT ENGINEER-MAINTENANCE PHONE: 301-513-7304

MAJID SHAKIB

PHONE: 301-513-7358

AUGIE REBISH

ASSISTANT DISTRICT ENGINEER-TRAFFIC

ASSISTANT DISTRICT ENGINEER-UTILITIES PHONE: 301-513-7350

EQUIPMENT LIST "C"

C. ALL REMOVED SIGNAL MATERIALS ARE TO BECOME PROPERTY OF THE CONTRACTOR.

EQUIPMENT LIST "B"

DESCRIPTION

MARKING

TEST PIT EXCAVATION

ELECTRICAL HANDHOLE

CONDUIT-TRENCHED

A VIDEO DETECTOR 500 FT. CABLE

OPTICOM DETECTOR EYE

CONDUIT-BORED

REROUTE CABLE

LEAD IN

RELOCATE CAMERA

INSTALL OVERHEAD SIGN

CONCRETE FOR SIGNAL FOUNDATION

24 IN. HEAT APPLIED THERMOPLASTIC WHITE PAVEMENT

NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

27 FT. STEEL POLE WITH 70 FT. MAST ARM

250 WATT HPS LUMINAIRE WITH PHOTOCELL

8 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION

12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION

ELECTRICAL CABLE 5-CONDUCTOR (NO. 12 AWG)

ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG)

ELECTRICAL CABLE 2-CONDUCTOR (NO. 12 AWG)

ELECTRICAL CABLE 4-CONDUCTOR (NO. 20 AWG)

REMOVE AND DISPOSE OF EXISTING MATERIAL

MICRO-LOOP NON INVASIVE PROBE SET WITH 1000 FT.

20 FT. LIGHTING ARM ON SIGNAL STRUCTURE

27 FT, STEEL POLE WITH 50 FT, MAST ARM

3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL

3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL

GROUND ROD 3/4 IN. X 10 FT. LENGTH

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

QUANTITY

2 C.Y.

60 L.F.

14 C.Y.

IEA.

2 EA.

2 EA.

3 EA.

6 EA.

№ 29 EA.

△ 100 L.F.

▲ 1590 L.F.

▲ 460 L.F.

△ 61 L.F.

2 EA.

I EA.

49 L.F.

2 EA.

2 EA.

I EA.

2 EA.

IL.S.

△ 55 L.F.

▲ 132 S.F.

CAT CODE

NUMBER

203030

585624

801004

802501

811001

813015

818052

831010

837001

860270

860272

861107

861108

861116

866104

866204

807164

800000

800000

800000

800000

OWINGS MILLS, MARYLAND

▲ 800000

▲ 800000

A 800000

A 870163

SPEC.

SECTION

205

556

801

811

818

814

810

810

810

818

805

805

807

810

810

XXX

PHASE CHART

2 3 4 5 6 7 8 9 10 11 12

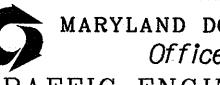
		4 G G	(4Y−)Y (4G−)6	Y	(Y-) Y (G-) (8	(Y − (Y) (G − (G)	Y	Y	Y	Y	Y	Y	Y	
A	PHASE I+5	R ∢G-	₹G-	R	 ÆG ▼	RG ▼G	R	R	R	R	R	R	R	±
	1+5 CHANGE	R ∢Y-	R ▼Y-	R	R ∢Y-	R ▼Y	R	R	R	R	R	R	R	
	PHASE 2+6	G	G	G	G	G	G	R	R	R	R	R	R	<u> </u>
	2+6 CHANGE	Υ	Υ	Υ	Y	Y	Υ	R	R	R	R	R	R	 →
	PHASE 4+8	R	R	R	R	R	R	G	G	G	G	G	G	200 ↑
	4+8 CHANGE	R	R	R	R	R	R	Υ	Y	Y	Υ	Υ	Y	→
	FLASHING	FL	FL	FL/	FL	FL	FL/	◆						
	OPERATION	Y	/ Y	Y	/ Y	/ Y	/ Y	R	R	R	R	R	R	\\ \\

| REDLINE NO. 1 5/6/02

SCALE:

DATE:

ADDENDUM #2 10/11/2001



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET MD 450 - MD 193 TO STONYBROOK DRIVE THE WILSON T. BALLARD CO. MD 450 AT HIGHBRIDGE ROAD - ULTIMATE CONSULTING ENGINEERS

> DRAWN BY: TS-3193C-2 STB PG900557I CHECKED BY: S.H.A. NO. SHEET NO. PRINCE GEORGE'S NONE COUNTY: T.I.M.S. NO. OCTOBER 2001 416 OF 545 LOG MILE: 10.44